

Recirculating Chiller Specifications

One air-cooled recirculating chiller, with a minimum cooling capacity of 20kW, for cooling Argon and pulsed Nd-YAG laser systems.

Detailed Specifications

Recirculating chiller shall meet the following specifications:

**Brand name OR Equal Brand: Thermo Fisher Scientific Part Number:
1815810000200000 TF200 B 208/60/3 P3 USA**

- Set-point range: 5-40C
- Cooling capacity: 60Hz – minimum 20000 Watts @20C
- Pump: 60Hz - Pump Flow: at least 10 gpm @ 32 psid; (37.9 lpm @ 2.2 bar)
- Power Requirements: 208-230VAC 60HZ 3 PH;
- Shall use stepper valve for metering of refrigerant (provides more accurate metering)
- Shall have easily removable grille and air filter at condenser
- Shall have sight tube with level indicator for fluid level
- Ultrasonic welding shall be used at manufacturing to reduce chance of leaks
- Shall have integrated fluid funnel at fill point
- Shall use push lok connections for internal plumbing to ensure leak free design
- Shall comply with:
 - CSA File #: 1056974_C_000
 - CLASS: 8721-05 CAN/CSA 22.2 No. 61010-1-04
 - CLASS: 8721-85 ANSI/UL Standard 61010-1
 - 2004/108/EC - EMC Directive - EN 61326-1:2006
 - 2006/95/EC - Low Voltage Directive - EN 61010-1:2001
- Warranty:
 - The chiller system shall be warranted for 24 months from date of shipment.